

Science GE DOK Alignment Chart EARTH/SPACE SCIENCE Grades 3-4 GE 50

DOK Level	GE Statement with Ceiling DOK	Science Concepts	Resources/Practice Items
Enduring Knowledge: Natural resources and agricultural systems are managed for specific purposes and in a variety of ways.			
DOK 2	<p>S3-4: 50 Students demonstrate their understanding why and how natural resources are managed by...</p> <ul style="list-style-type: none"> Identifying the sources and explain processes for developing natural/agricultural products that humans use. (E.g. Paper from trees, sweater from sheep wool). <p>GE Connection: S3-4:49</p>	<p>a. Many natural/agricultural resources need to be processed for human use. Technology is often a part of the processing of natural/agricultural resources.</p> <p>Machines improve the benefits of food and material crops by helping in planting and harvesting, by keeping food fresh through packaging and cooling, and by transporting resources long distances.</p>	--Construct a flow chart to illustrate relationship between natural/agricultural resources and their uses by humans. --Resource: NPR Morning Edition Story "Food Inc." (Attention must be paid to food supply.) http://www.npr.org/templates/story/story.php?storyid=105285829 --Food Inc.: The Movie (selected portions) http://www.sbs.com.au/films/movie/4897/Food-Inc . --Omnivore's Dilemma—Young Reader's Edition—Michael Pollan http://abcnews.go.com/video/playerIndex?id=8898431
DOK 2	<ul style="list-style-type: none"> Identifying the value of local natural/agricultural resources to human survival. <p>GE Connection: S3-4:49</p>	b. Natural/agricultural resources can be used to improve the human condition.	--Interview local residents/business leaders and report how they use natural/agricultural resources to benefit humans.
DOK 3-4	<ul style="list-style-type: none"> Identifying and assess both beneficial and detrimental ways that humans obtain, use and dispose of natural/agricultural resource products. 	<p>c. Different ways of obtaining, transforming and distributing natural/agricultural resources have different environmental consequences.</p> <p>As natural/agricultural resources are depleted these resources become more difficult to obtain.</p>	--Design a plan for families/communities to manage natural/agricultural resources. -- Project Seasons (K-3) Shelburne Farms http://www.shelburnefarms.org/prodinfo.asp?number=PS Food Works http://foodworksvermont.org/